

REMARKS/ARGUMENTS

As amended, independent claim 1 describes in part that a determination of whether a guest instruction is to be patched is based at least in part on a list of instructions stored in a template map that further stores code templates. In addition, claim 1 describes that a code template is retrieved from this map and an emulation routine is generated that includes modifying the code template based on guest instruction characteristics, storing the emulation routine in an emulation database, assigning a value to this routine, and storing an association of the routine with this value in an emulation map. In part, this amended claim 1 is based on original claim 8 as further modified. Claim 1 thus describes the presence of a template map, an emulation database, and an emulation map.

The cited art, alone or in combination, fails to teach or suggest these various structures and the use of the structures in determining instruction patching, emulation routine generation, and finding of an emulation routine. Here, reliance is on a combination of 3 references. In regard to the subject matter of claim 1 based on previously pending dependent claim 8, reliance is on secondary reference Dinechin2. Yet this reference nowhere teaches or suggests the recited template map, retrieving of code from such a map, or the described generation of an emulation routine. Instead, The Office Action refers to a code routine for recognition of constant portions of instructions and for extraction of potentially variable fields. Yet this pseudocode that finds instruction blocks within code sequences nowhere teaches or suggests the arrangement described above. In addition, the primary and additional secondary references nowhere teach or suggest this subject matter. Accordingly, claim 1 and the claims depending therefrom are patentable over the cited art. For at least the same reasons, independent claims 11 and 20 and their dependent claims are similarly patentable.

The application is believed to be in condition for allowance and the Examiner's prompt action in accordance therewith is respectfully requested. The Commissioner is authorized to charge any additional fees or credit any overpayment to Deposit Account No. 20-1504.

Respectfully submitted,

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